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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/972,996	1	0/10/2001	Kenichi Fujii	862.C2404	4792
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FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA			BRANT, DMITRY		
NEW YORK, NY 10112			ART UNIT	PAPER NUMBER	
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DATE MAILED: 09/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	09/972,996	FUJII ET AL.		
Office Action Summary	Examiner	Art Unit	*	
	Dmitry Brant	2655		
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet	vith the correspondence addre	ess	
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a relif NO period for reply is specified above, the maximum statutory perions after the reply within the set or extended period for reply will, by state that the period for reply will, by state that the mail that the part of the mail that the mail that the part of the mail that the mail th	I.  1.136(a). In no event, however, may a sply within the statutory minimum of the d will apply and will expire SIX (6) Mo ute, cause the application to become	a reply be timely filed irty (30) days will be considered timely. DNTHS from the mailing date of this comr ABANDONED (35 U.S.C. § 133).	πunication.	
Status				
1)⊠ Responsive to communication(s) filed on 10	/5/01.			
·— ·	nis action is non-final.			
3) Since this application is in condition for allow				
Disposition of Claims				
4) Claim(s) 1-32 is/are pending in the application 4a) Of the above claim(s) is/are withdrest is/are withdrest is/are allowed.  5) Claim(s) is/are allowed.  6) Claim(s) 1-32 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and are subject to restriction and are subject to by the Examination of the specification is objected to by the Examination of the specification and are subjected to by the Examination of the specification are subjected to by the Examination of the specification are subjected to by the Examination of the specification are subjected to by the Examination of the specification are subjected to by the Examination of the specification are subjected to by the Examination of the specification are subjected to by the Examination of the specification are subjected to by the Examination of the specification are subjected to by the Examination of the specification are subjected to by the Examination of the specification are subjected to by the Examination of the specification are subjected to by the Examination of the specification are subjected to by the Examination of the specification are subjected to by the Examination of the specification are subjected to by the Examination of the specification are subjected to by the Examination of the specification are subjected to by the Examination of the specification are subjected to by the Examination of the specification are subjected to be subjected to by the Examination of the specification are subjected to be subjected	rawn from consideration.  I/or election requirement.  ner.  ccepted or b) □ objected the drawing(s) be held in abey	ance. See 37 CFR 1.85(a).	t 1.121(d).	
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date	Paper N	v Summary (PTO-413) o(s)/Mail Date f Informal Patent Application (PTO- 	152)	

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### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-2, 5-9, 14, 15-16, 19-23, 29-32 are rejected under 35 U.S.C. 102(e) as being anticipated by Thelen et al. (6,487,534 filed 3/23/00)

The table below summarizes the limitations of this application and the corresponding parts of Thelen et al. which read on these limitations.

Claim#	Limitations	Thelen et al.
1, 15	A speech recognition system in which a client and a	
	device that provides a speech recognition process are	Client + plurality of servers (Col. 2, lines
	connected, and which provides a plurality of usable	32-43 and FIG. 6)
	speech recognition means to the client, comprising:	
	speech input means for inputting speech at the	(inherent for speech reception of speech
	client	input signal, 740, FIG. 7 or 331, FIG. 3)
	designation means for designating one of the	speech controller and switch direct speech
	plurality of usable speech recognition means	input signal to server stations (Col. 2, lines
		32-43, and elems. 335-6, FIG. 3)

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	and processing means for making the speech	recognition on the server (314, FIG. 3)
	recognition means designated by said designation means	, , , ,
	recognize speech input from said speech input means.	
2, 16	The system according to claim 1, wherein said	
	designation means comprises:	
	detection means for detecting designation	Local recognizer parses user's commands
	information used to designate one of the plurality of	(334, FIG. 3 and Col. 2, lines 40-43)
	usable speech recognition means from the speech input by	
	said speech input means, and	
	said designation means designates one of the	Controller performs selection of the server
	plurality of usable speech recognition means on the basis	and the routing of speech data to that server
	of the designation information detected by said detection	(335, FIG. 3 and Col. 2, lines 40-43)
	means.	
5, 19	The system according to claim 1, wherein each of said	Speech recognition systems inherently
0, 23	plurality of usable speech recognition means is capable of	convert the format of input speech into a
	converting data format of speech input by said speech	different data format used for speech
	input means into a speech data format that can be	recognition (A/D conversion, framing,
	recognized by speech recognition processing when the	filtering, feature vectors, etc.) (Col. 4, 14-
	data format of the speech input by said speech input	28)
	means is different from the speech data format.	
	A speech recognition system in which a client and a	Client + plurality of servers (Col. 2, lines
6, 20		32-43 and FIG. 6)
	plurality of devices that provide a speech recognition	32-43 and 11G. 0)
	process are connected, wherein the client comprises:	(inherent for speech reception of speech
	speech input means for inputting speech	input signal, 740, FIG. 7 or 331, FIG. 3)
		input signal, 740, FIG. 7 of 331, FIG. 3)
	designation means for designating one of the	speech controller and switch direct speech
	plurality of speech recognition process,	input signal to server stations (Col. 2, lines
		32-43, and elems. 335-6, FIG. 3)
	wherein said system comprises processing means	recognition on the server (314, FIG. 3)
	for making a speech recognition process provided by a	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	device designated by said designation means, recognize	
	the speech input from said speech input means.	
1	the speech input from said speech input means.	

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7, 21	The system according to claim 6, wherein said client	
	farther comprises detection means for detecting speech	Local recognizer parses user's commands:
	corresponding to designation information used to	"Select Philips," (334, FIG. 3 and Col. 2,
	designate one of the plurality of usable speech recognition	lines 40-43). Speech recognizer is
į	means, from the speech input by said speech input means,	inherently built to detect speech.
	wherein said designation means converts the	Local recognizer/controller performs
	speech detected by said detection means into designation	selection of the server and the routing of
	information by using a speech recognition on the client,	speech data to that server (335, FIG. 3 and
	and designates one of the plurality of said speech	Col. 2, lines 40-43)
	recognition means on the basis of the converted	
	designation information.	
8, 22,	A client in a speech recognition system to which a device	Client + plurality of servers (Col. 2, lines
29, 31	that provides a speech recognition process is connected,	32-43 and FIG. 6). Client computers
,	and which provides a plurality of usable speech	necessarily contain storage mediums (RAM,
	recognition means, comprising:	hard disks, etc.) + software.
	speech input means for inputting speech	(inherent for speech reception of speech
		input signal, 740, FIG. 7 or 331, FIG. 3)
	and designation means for designating one of the	speech controller and switch direct speech
	plurality of usable speech recognition means	-input signal to server-stations (Col. 2, lines
		32-43, and elems. 335-6, FIG. 3)
	and processing means for making the speech	recognition on the server (314, FIG. 3)
	recognition means designated by said designation means	
	recognize speech input from said speech input means.	
9, 23	The client according to claim 8, wherein said designation	
	means comprises:	
	detection means for detecting designation	Local recognizer parses user's commands:
	information used to designate one of the plurality of	"Select Philips," (334, FIG. 3 and Col. 2,
	usable speech recognition means from the speech input by	lines 40-43). Speech recognizer is
	said speech input means, and	inherently built to detect speech.

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	said designation means designates one of the	Local recognizer/controller performs
	plurality of usable speech recognition means on the basis	selection of the server and the routing of
	of the designation information detected by said detection	speech data to that server (335, FIG. 3 and
	means.	Col. 2, lines 40-43)
14, 28,	A server which is connected to a client via a network, and	(servers necessarily contain storage
30, 32	provides a plurality of usable speech recognition means to	mediums + software (RAM, hard disks,
	the client, comprising:	etc.))
	providing means for providing a designation operation environment that allows the client to designate one of the plurality of usable speech recognition means	Web page containing advertising banners of different companies, having their own recognition servers (Col. 2, lines 36-40). Either the whole web-page or specific banners read on the "providing means for providing a designation operation."
	and processing means for making the speech	Speech recognizer on a dedicated SR server
	recognition means designated by said providing means	(314, FIG. 3)
	recognize speech received via the network.	

# Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 3-4, 10-13, 17-18, 24-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Thelen et al.

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As per claims 3, 11, 13, 17, 25, 27, Thelen et al. do not disclose "GUI input means for designating one of the plurality of usable speech recognition means via graphical user interface."

However, Thelen et al. disclose the use of a web page containing advertising banners of different companies, each company having its own recognition servers (Col. 2, lines 36-40). The users select the banner by saying the banner's name, tag name, etc. (Col. 2, lines 45-48). The examiner takes the official notice that it is extremely well-known in the art to navigate web pages using GUI by clicking on the banner using a standard IO device, such as a computer mouse.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Thelen et al. to choose recognition servers by using a standard GUI to select the associated banners (by clicking on them, for example), as this is the most well-known and universally accepted method of navigating web pages, and would allow the users to browse the "speech recognition" web pages in a way identical to browsing the "regular" web pages.

As per claims 4, 12, 18, 26, Thelen et al. discloses receiving input speech (740, FIG. 7) but do not explicitly disclose using "plurality of speech input means."

However, the examiner takes the official notice that input systems with multiple microphones (such as microphone arrays) are notoriously well-known in the art and are used in a variety of systems adapted for noisy or spatially large environments (conference rooms, car SR, home entertainment systems, etc.).

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Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Thelen et al. to use multiple speech input means (microphones), as such arrangement is very well-known in the art, and would allow the users of Thelen et al.'s system to improve the reception of speech signal in noisy or spatially large environments (conference rooms, etc.)

As per claims 10, 24, Thelen et al. do not disclose a situation "when said detection means does not detect any designation information, said processing means recognizes the speech input from said speech input means without using the plurality of speech recognition means."

However, Thelen et al. disclose an embodiment where a local recognizer is used to identify a "routing command" and direct the speech signal to the appropriate server (Col. 9, lines 4-16). In other words, a local recognizer does recognize input speech, but if the routing command was not present in the table or was not specified by a user (Col. 9, lines 5-10), then the client station would not be able to contact the SR server for the further speech recognition. Hence, assuming that no default SR server is specified, whenever the client cannot resolve the destination server, all the speech processing must be either performed directly on the client using a limited speech recognizer (334, FIG. 3) or aborted altogether. Since the latter option is not useful, the limited speech recognizer on the client is the only viable device that can perform speech recognition in

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the situation described above or when small commands are used for operation of the client's workstation (Col.8, lines 49-60)

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Thelen et al. to use a local recognizer as a back-up option whenever the remote server is not specified in order to provide the user with some speech recognition capability instead of aborting the transaction altogether. This would improve the overall usability of the system and would work particularly well in situations where the small commands are used in operation of the client's workstation (Col.8, lines 49-60)

### Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Thelen et al. (6,526,380) teach a system with multiple parallel recognizers.

White et al. (6,408,272) teach a distributed voice recognition system.

Joost (6,327,568) teaches a distributed voice recognition system.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dmitry Brant whose telephone number is (703) 305-8954. The examiner can normally be reached on Mon. - Fri. (8:30am - 5pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Talivaldis Ivars Smits can be reached on (703) 306-3011. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to Tech Center 2600 receptionist whose telephone number is (703) 305-4700.

DB

9/7/04

SUSAN MCFADDEN
ON MARY EXAMINER

Madr